SEQUENCE LISTING

```
<110> Welch, Ellen M.
      Almstead, Neil G.
      Rando, Robert F.
      Pelligrini, Mathew C.
<120> Methods for Identifying Small Molecules That Modulate Premature
      Translation Termination and Nonsense Mediated mRNA Decay
<130> 10589-044-999
<140> 10/521,775
      2003-07-24
<141>
<150> 60/398,332
<151> 2002-07-24
<150> 60/398,344
      2002-07-24
<151>
<160> 35
<170> PatentIn version 3.2
<210> 1
<211> 27
<212> RNA
<213> Artificial Sequence
<220>
      Description of Artificial Sequence: 16s rRNA A site
<223>
<400> 1
                                                                     27
ggcgucacac cuucggguga agucgcc
<210> 2
<211> 29
<212> RNA
<213> Artificial Sequence
<220>
      Description of Artificial Sequence: 16s rRNA A site
<223>
                                                                      29
ggcagaucug agccugggag cucucugcc
<210> 3
<211> 12
<212> PRT
<213> Artificial Sequence
<220>
      Description of Artificial Sequence: 16s rRNA A site
<223>
<400> 3
Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Pro
```

```
<210> 4
<211> 16
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 4
                                                                     16
aaagcctaca gcaccc
<210> 5
      17
<211>
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 5
                                                                     17
tactgaggga atcctgg
<210> 6
<211> 34
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 6
                                                                     34
ttaccacccg ctttgggggg ggcgggaaag atcc
<210> 7
<211> 17
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 7
                                                                     17
gggggggga aagatcc
<210> 8
<211> 17
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 8
                                                                     17
ccccgagcca ccttccc
```

```
<210> 9
<211> 17
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 9
                                                                     17
ggccccggga ttcggcg
<210>
      10
<211>
      17
<212>
      DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 10
                                                                     17
cactggggac agtccgc
<210> 11
<211>
      18
<212>
      DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 11
                                                                     18
cgcggcggc gagacggg
<210> 12
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
      Description of Artificial Sequence: Primer
<223>
<400> 12
                                                                      18
gagggaaact tcggaggg
<210> 13
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
      Description of Artificial Sequence: Primer
<223>
<400> 13
                                                                      18
catcgggcgc cttaaccc
```

```
<210> 14
<211> 17
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 14
                                                                     17
cgacgcacac cacacgc
<210> 15
<211>
      17
<212>
      DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 15
                                                                     17
ccaagatctg cacctgc
<210> 16
<211> 17
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 16
                                                                     17
ttaccgcact ggacgcc
<210> 17
<211> 17
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 17
                                                                     17
gccagaggct gttcacc
<210> 18
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 18
                                                                     20
tggggaggga gcgagcggcg
```

```
<210> 19
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 19
                                                                      19
aagggcccgg ctcgcgtcc
<210> 20
<211>
       20
<212>
      DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 20
                                                                      20
agggcggggg gacgaaccgc
<210> 21
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 21
                                                                      22
ttaaacagtc ggattcccct gg
<210> 22
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 22
                                                                      18
ttcatccatt catgcgcg
<210> 23
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
      Description of Artificial Sequence: Primer
<223>
<400> 23
                                                                      19
_agtagtggta tttcaccgg
```

```
<210> 24
<211> 17
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 24
                                                                     17
acgggaggtt tctgtcc
<210> 25
<211>
      19
<212>
      DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 25
                                                                     19
acaatgatag gaagagccg
<210> 26
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223>
      Description of Artificial Sequence: Primer
<400> 26
aggcgttcag tcataatccc
                                                                     20
<210> 27
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223>
      Description of Artificial Sequence: Primer
<400> 27
                                                                     20
tecgcacegg acceeggtee
<210> 28
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223>
      Description of Artificial Sequence: Primer
<400> 28
                                                                     27
gggctagttg attcggcagg tgagttg
```

```
<210> 29
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 29
                                                                     18
tctccggaat cgaaccct
<210> 30
<211>
      18
<212>
      DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 30
                                                                     18
attaccgcgg ctgctggc
<210> 31
<211>
      17
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 31
                                                                     17
ttggcaaatg ctttcgc
<210> 32
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223>
      Description of Artificial Sequence: Primer
<400> 32
                                                                     21
ccgtcaattc ctttaagttt c
<210> 33
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 33
                                                                      21
agggcatcac agacctgtta t
```

<210> 34

<211>	17	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Primer	
<400>	34	
cgacgg	gcgg tgtgtac	17
<210>		
<211>	•	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Primer	
<400>	35	
ccacaa	atto acctacaa	18